

Another object of the invention is ~~that of providing a system for the extraction of gases a~~  
method for extracting and re-injecting a gaseous fluid from and to a process environment. which  
~~reduces in the most complete manner the ingress of dust and condensate through the probe, as~~  
~~well as guaranteeing continuity and reliability of the analysis.~~

~~This object is achieved according to the invention by a system for extracting gases from a~~  
~~process environment, having the characteristics defined in Claim 11.~~

Please add the following paragraph on page 3, line ~~10~~<sup>21</sup>:

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The reliability and continuity of the system makes it possible to utilize its output for  
automatic furnace management (not having compressed air washing which gives rise to O2  
peaks). The capacity of the compressor is high, therefore the response is faster than in usual  
systems, and possible micro-losses have no influence. Consequently a more reliable analysis is  
achieved.

Please add the following paragraph on page 4, line 24:

The probe is easy to install in a short time, not requiring a great deal of work for  
adaptation of the existing system to be able to connect it. Moreover, it does not require a great  
deal of care in research for the optimum position in the furnace (the minimum dust point etc.)

Please delete the paragraphs on page 5 beginning on line 5.

Please amend the paragraphs beginning on page 7, line 27 as follows:

The coupling of the two chambers (gas and cooling, that is to say the second and third  
tube 2, 3, from the inside working outwardly), gives rise to an interspace IN, blind at the probe  
bottom (outer furnace side) and open at the head TS (inner furnace size) that is to say it is licked  
by the gas. This avoids the formation of condensation with the gas aspiration tube 2 (second